MERICAN NURSERYMA AUG2 0 1917.

The National Journal Of Commercial Horticulture



Circulating Throughout the United States, Canada and Abroad, Featuring Commercial Horticulture in all its Phases of Nursery Stock, Orchard, Landscape Planting, Distribution. Published Semi-Monthly by American Fruits Publishing Company, Inc.



Vol. XXVI

ROCHESTER, N. Y., AUGUST 15, 1917

No. 4

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An Incident of the Brand Nursery Development

NO SHORTAGE OF CARS

SAYS FEDERAL TRADE COMMISSION

Railroads To Care For Needs Throughout Country

NATIVE PLUMS EXCEL THE IMPORTED

VARIETIES GENERALLY

Pronouncement By Dr. A. B. Dennis, Cedar Rapids, Ia.

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EDITORIAL DEPARTMENT—Communications on any subject connected with Commercial Horticulture, Nurseries or boriculture are cordially invited by the Editor; also articles on these subjects and papers prepared for conventions of Nursery or Horticultural associations. We also shall be pleased to reproduce photographs relating to these topics, Orchard Scenes, Cold Storage Houses, Office Buildings, Fields of Stock, Specimen Trees and Plants, Portraits of Individuals, etc. All photographs will be returned promptly.

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Journal of Commercial Horticulture, quality,
itity.

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RALPH T. OLCOTT Editor and Manager

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INDEPENDENT AND FEARLESS—"AMERICAN NURSERY-MAN" is not the official journal of any organization. It therefore makes no distinction in favor of any. It is untrammeled in its absolutely independent position and is the only Nursery Trade publication which is not owned by nurserymen.

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AMERICAN FRUITS PUBLISHING COMPANY, INC. 39 State Street, Rochester, N. Y.

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The Standard Cyclopedia of Horticulture Dr. L. H. Bailey



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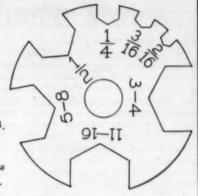
Volume XXVI.

Number 4

AMERICAN FRUITS PUB'G CO., INC. 39 State St. Rochester, N. Y.

Entered Sept. 1, 1916, at Rochester, N. Y., Post Office as second class mail matter. Only independent publication of the kind.

ROCHESTER, N. Y. AUGUST 15, 1917



Comment On Current Topics

American Pomological Society
The regular biennial meeting of this organization will be held in Boston, Mass.,
October 31-November 4, 1917.
The occasion in full will be a regular meeting of the Massachusetts Horticultural Society, the New England Fruit Show, and the American Pomological Society. Very all and extended programs covering all the American Pomological Society. Very full and extended programs covering all phases of fruit growing will be rendered and an exceptional exhibition of fruits, fruit products, and allied material will be staged. The American Pomological Society will feature the Wilder Medal, its distinct and special honor for new fruits, discoveries in appropriate science and for executive years.

pomological science, and for specially meri-

torious exhibits
Unique exhibits and demonstrations with

Unique exhibits and demonstrations with some of our newer fruit introductions such as the avocado, and fruit juices as the loganberry-juice will be in evidence.

On the whole the event promises to be one of nusual interest to American pomology. Boston's well known attitude toward both amateur and professional horticulture and promology assures a delightful and inand pomology assures a delightful and in-structive week to all those attending.

Those who contemplate offering new fruits for the Wilder Medal should advise the Secretary, E. R. Lake, 2033 Park Road, Washington, D. C., in order that registration and entry cards can be properly made before the meeting date.

The A. P. S. program is being prepared for early announcement by the President, W. N. Hutt, Raleigh, N. C. Suggestions along this line should be addressed to him.

Pacific Coast Nurserymen

Pacific Coast Nurserymen

Among the nurserymen and speakers present at the meeting of the Pacific Coast Nurserymen's Association were: Chas. R. Stillinger, Portland, Ore.; F. A. Wiggins, Toppenish, Wash.; C. Bert Miller, Milton, Ore.; A. Lingham, Puyallup, Wash.; F. H. Burglehaus, Sumner, Wash.; John C. Chase, Derry, N. H.; F. W. May, Yakima, Wash.; J. A. Cole, Seattle, Wash.; John Michelson, Portland, Ore.; Henry M. Lindley, Louis Holland, J. J. Bonnell, W. C. Shawen, R. A. Studhalter, Ludwig Metzger, C. Malmo, all of Seattle; E. B. Chenoweth, Mt. Vernon; Albert Brownell, H. A. Lewis, Portland; W. Snyders, Boskoop Holland, John G. Stewart, Christopher, Wash.; J. L. Stahl, Puyallup; W. N. Allen, Tacoma; Otto Griessal, Portland, Ore.; M. McDonald, Orenco, Ore.; Frank F. Williams, Milton, Ore.; M. R. Jackson, Fresno, Calif.; Chas. L. Trotter, Vancouver, B. C.; M. L. Dean, Chief of Horticultural Division, Olympia, Wash.; Henry Bentheien, R. D. 2, Box 158, Tacoma; S. A. Miller, Milton, Ore.; J. B. Pilkington, Portland, Ore.; A. Eckert, Detroit, Wash.; Richard Layritz, Victoria, B. C.; E. J. Bernecke, Puyallup, Wash.; H. A. Lewis, Portland, Ore.; E. E. Brown, Detroit, Wash.; C. A. Tonneson, Tacoma, Wash.; Mr. and Mrs. Day, Spokane; Mrs. J. T. Mitchell, Tacoma; Mrs. C. B. Miller and Miss Allene Miller, Milton, Ore.; Mr. and Mrs. Ferd Groner, Hilsboro, Ore.; Mrs. May, Yakima.

Members of the New York State Fruit Growers Association are spending several days this month touring fruit growing coun-

Northern Nut Growers
Tentative Programme for the Eighth Annual Meeting of the Northern Nut Growers nual Meeting of the Northern Nut Growers Association to be held at Stamford, Conn., Wednesday and Thursday, September 5 and 6, 1917, at the Hotel Davenport. WEDNESDAY, SEPTEMBER 5

10:00

Call to order and Business Session.
President's Address, W. C. Reed.
Reasons for Our Limited Knowledge
as to What Varieties of Nut Trees
to Plant, Prof. W. N. Hutt, Pres.
American Pomological Society. Discussion.

The High Cost of Nut Trees, T. P. Littlepage.

Discussion.

The Nut Bearing Pine Trees, Dr. Robert T. Morris.

Discussion. Question Box.

Inspection of his Experimental 1:30

Work. By Automobiles to Greenwich and

Stamford Nut Trees.

Dinner of Members and Guests at

Hotel Davenport.

Address, Advent of Nuts into the Nation's List of Staple Foods, Dr. J. H. Kellogg of Battle Creek. Discussion.

On the Importance of Nut Growing, H. W. Collingwood, Editor Rural

New-Yorker.
The Place for Nut Trees in the Planting Programme, C. A. Reed, Nut Culturist, U. S. Dept. of Agriculture.

(Illustrated Talk)

THURSDAY, SEPTEMBER 6 A. M.

Business Meeting.
Demonstration of Top Working Nut 10:00

Trees, J. P. Jones.
The Extent of the Hardy Nut Tree
Nursery Business, Ralph T. Olcott,
Editor American Nut Journal and

American Nurseryman.
Insects Attacking Nut Trees, Dr. W.
E. Britton, State Entomologist.

Discussion.

Nut Trees for Shade, F. A. Bartlett,
Editor of Tree Talk.

Question Box. Intermission for Luncheon. 12:30

Automobile trip to see Nut Trees between Stamford and Danbury, stopping at Dr. Deming's place.

According to latest available figures ob-According to latest available figures obtained from the Daily Fruit World, this years' cherry shipments from California points is nearly double that of last year's. In 1917 295 cars were shipped, while there were only 164 cars in 1916.

It is estimated that it will take 250 people to harvest the prune and apple crop in the Weiser, Idaho, section, to say nothing of the number that will be needed in the packing plants. There will be at least one hundred cars of prunes and one hundred cars Hail Insurance Report

Chairman F. A. Weber of the American Association committee on hail insurance

has made report in which he says:

"Your committee decided at first that the proper way to get information would be to issue question blanks and a letter of explanation requesting reports on hall losses, etc. We had 2,000 letters printed, 1900 of which were sent to nurserymen as listed in the nursery trade reports covering the en-tire United States.

"To these letters your Committee re-ceived answers from 158 nurserymen. "Out of these 158 replies, 62 firms report-

ed as being interested in hall insurance. Out of the total reports received there were 33 losses in the last five years, esti-mated at \$118,400.00, divided as follows:

maten at arrotanto	u,	u	ıa.	ж.	ıч	rec	u	- 4	128.6	2	ж.	CALL	C M C .
Alabama, 2 losses .												.\$	3500.00
Arkansas, 1 loss .													50.00
Colorado, 2 losses									* 1				2600.00
Idaho, 1 loss													1000.00
Illinois, 1 loss													1000.00
Indiana, 1 loss													15000.00
Iowa, 2 losses													17500.00
Kansas, 5 losses .													25000.00
Minnesota, 1 loss													10000.00
Missouri, 3 losses													26000.00
Nebraska, 3 losses													4500.00
New York, 5 losses													10000.00
Tennessee, 1 loss													150.00
Texas, 4 losses													1100.00
Wisconsin, 1 loss													1000.00
	5									- 1			

"The number of losses reported previous to the last five years were thirty, covering an appropriate period of twenty years.

"Of the firms reporting, your committee has totaled the approximate amount of each

variety on which insurance would be car-ried in case reasonable rates could be ob-

			Trees
50	Firms	report,	Apples 2-3 yrs4,635,000
1	64	66	Apple, 1 yr. buds 250,000
47	66	66	Peach buds4,613,000
1	66	6.6	Peach June buds. 250,000
29	44	86	Pear buds 784,000
22	66	86	Pear 2 yrs1,041,500
10	6.6	64	Pear 3 yrs 190,000
37	44	65	Cherry buds2,462,500
28	64	64	Cherry 2 yr1,259,500
44	44	44	Plum buds1,304.500
28	66	44	Plum 2 yr 720,500
23	44	44	Apricot 1 yr 146,500
34	44	46	Ornamental trees
0.8	all g	rades	

Total19,349,500

More than 50,000 cars of California fruit

More than 50,000 cars of California fruit have been shipped out of eastern markets this year, according to figures just compiled by the California Fruit Growers' exchange. This is an increase of practicaly 25 percent over the previous year and the same is true of the monetary return. Hundreds of thousands of dollars have come back to the fruit men of the state from markets that have been usually good the greater part of the season. part of the season.

A. L. McClay, leading orchardist of Illinois, will harvest this season from his orchards near White Hall 200 carloads of apples. He has approximately 1,000 acres

New Canadiam Nursery Regulations

Editor American Nurseryman:

The regulations under the Destructive Insect and Pest Act have recently been amended and as these regulations govern the importation of nursery stock in Canada I am sending you herewith a copy of the amended regulations in which those regulations particularly affecting the shipment of nursery stock from the United States into Canada have been marked in red ink. As it will be necessary for nurserymen in the United States to be guided by these regulations in making their shipments into Canada I should be pleased if you would find space in your columns for the reproduction of the regulations that have been marked.

Special attention is called to the following points:

- 1. The periods during which and the customs ports through which nursery stock may enter Canada.
- 2. The classes of nursery stock that are exempt from fumigation and may be imported at any time of the year.
- 3. The shipment of nursery stock subject to fumigation and nursery stock that is exempt in separate containers.
- 4. Declaration of the contents of each shipment.
- 5. The list of nuresry stock and other natural products prohibited from entering Canada under Regulation 7.
- 6. The prohibition of the importation of nursery stock through the mails.

Hoping that we may have your co-operation in making these Regulations known to those firms who are accustomed to ship nursery stock into Canada. I have the honor to be, sir, your obedient servant.

C. GORDON HEWITT,

Dominion Entomologist.

Ottawa, Canada, August 8, 1917.

3. Nursery stock including all trees, shrubs, plants, vines, grafts, scions, cuttings or buds which are not hereinafter exempted, entering Canada shall be imported only through the ports and during the periods respectively hereinafter mentioned, that is to say:

Vancouver, B.C., from October 1 to May 1. Niagara Falls, Ont., from October 1 to May 15.

Winnipeg, Man., North Portal, Sask., and St. John, N. B., from March 15 to May 15, and from October 7 to December 7.

Windsor, Ont., and St. John, P. Q., from March 15 to May 15, and from September 26 to December 7.

Truro, N. S., and Digby, N. S., for nursery stock destined to points in the Province of Nova Scotia only, from March 15 to May 15 and from October 7 to December 7.

At all points of entry the importations shall be fumigated in the fumigation houses provided for that purpose and a certificate of fumigation will be issued, without which no stock may be taken out of bond.

The following vegetation and florists' stock shall be exempt from fumigation and may be imported at any season of the year through any port without inspection:

- (a) Greenhouse grown plants, including roses in foliage which have been grown in pots up to three inches in diameter but not larger. A certificate that the plants have been grown under glass must accompany the invoice and shall be signed by the con-
 - (b) Herbaceous perennials (the stems of

which die down in winter), such as perennial phlox, peonies, sunflowers, etc.

- (c) Herbaceous bedding plants (such as geraniums, verbenas, pansies, etc.)
- (d) Bulbs and tubers (such as hyacinths, lillies, narcissi and other true bulbs, and also tubers of dahlias, irises, etc.)
- (e) Cottonwood or Necklace Poplar, (Populus deltoides, Marsh), when shipped from and grown in Dakota or Minnesota, two of the United States of America.

Nursery stock subject to fumigation or inspection shall not be included in cars. boxes, bales or other containers with plants that are exempt from fumigation or inspection but shall be shipped in separate con-

- 4. The port by which it is intended that nursery stock subject to fumigation or inspection shall enter Canada shall be clearly stated on each car, box, bale or other container which shall also bear a declaration of the nature of the contents. All shipments made in accordance with these regulations will be entirely at the risk of the shippers or consignees, the Government assuming no responsibility whatever.
- 7. The Importation into Canada of the following is prohibited:
- (a) Potatoes from Europe, Newfoundland, the Islands of St. Pierre and Miguelon and the State of California.
- (b) All non-canned fruits, plants or portions of plants or other vegetation or vegetable matter from the Hawaiion Islands.
- (e) Coniferous trees such as spruce, fir, hemlock, pine, juniper (cedar) and arborvitae (white cedar) or the foliage thereof, and decorative plants such as holly and laurel known and described as "Christmas greens or greenery," from the States of Maine, Massachusetts, New Hampshire, Connecticut and Rhode Island.
- (d) The following species of the genus Pinus and their horticultural varieties, namely: White pine (Pinus strobus L.); Pine (Pinus monticola Western White Dougl.); Sugar pine (Pinus lambertiana Dougl.); Stone or Cembrian pine (Pinus cembra L.); and all other five-leaved species of the genus Pinus.
- (e) Chestnut (Castanea dentata Borkh.) and Chinquapin (Castanea pumila Mill.) from the United States.
- (f) All species and varieties of currants, and gooseberries (Ribes and Grassularia).
- The importation of all nursery stock including trees, shrubs, plants, vines, grafts, scions, cuttings or buds through the mails is prohibited, except greenhouse-grown florists' stock, cut flowers, herbaceous perennials and bedding plants, which will be admitted provided that a certified declaration of the contents is attached to such parcels.
- 9. Forest plant products, including logs, tan bark, posts, poles, railway ties, cordwood, lumber and stone and quarry products, originating in any one of the States of Maine, Massachusetts, New Hampshire, connecticut, and Rhode Island, five of the United States of America shall not be admitted in Canada unless such forest plant products or stone and quarry produce shall be accompanied by a certificate showing that they have been inspected by the United States Department of Agriculture and found free from Gipsy Moth. Each shipment shall be accompanied by such an inspection certificate, and the certificate shall accompany the bill of lading, way-bills or other memoranda pertaining to such shipments.

President Wiggins' Address

In his addresss at the annual meeting of the Pacific Coast Association of Nursery-

men, President F. A. Wiggins said:

I feel that reports of the state vice-presidents will show increased business in all lines at better prices than have prevailed for the past five years. They chould show a better cleaning up of stock and less apparent surplus than for any year in this period and, men while, we must all observe the percent of the period and, meanwhile, we must all observe the necessity of keeping a close grip on costs and expenses of all sorts. We must at the same time, not fail to maintain a high standard of quality in our stock and to use every legitimate means of getting this in-to the hands of the planter at a price which will leave us a good and legitimate process. will leave us a good and legitimate profit.

will leave us a good and legitimate profit.

The ranch owner or home owner who is our best customer will certainly have as much money with which to improve his place as in the past. He, it is true, will probably be more bent on devoting his energies to the production of quickly maturing agricultural crops, and yet, our own experience thus far has been that we can capitalize the present situation into a sound argument for the planting of home orchards. argument for the planting of home orchards of large and small fruits than would have been the case two or three years ago; speaking personally, the result of our campaign for new business thus far this season

proves this to be the case.

As to the ornamental trade which should properly go with this "home orchard business," we find the customers just as easily find the customers interested as in the past. We argue to the home owner that regardless of the length of the war, when the final period of re-adjustment comes, the man whose home adjustment comes, the man whose home presents a neat and attractive appearance due to a proper planting of ornamental stock, and which carries with it a well assorted home orchard will, in case he desires to dispose of it, command a much readier sale at a much better price than that of his neighbor not similarly adorned. And, we neighbor not similarly adorned. And, we also say to him that should the war con-tinue indefinitely, it is self-evident that the more nearly self-sustaining his ranch, the cheaper will be his living. We use the same argument to the small lot owner in the city whose every thought these days is bent on keeping down the cost of living and show him that to plant a few small fruits in his back yard makes for a real saving.

We must all recognize the fact that the present conditions have added tremendously to the cost of producing our stock, a large portion of which cost goes into labor, which is from 25 to 40 per cent. higher than a year ago, and possibly more in some sec-tions. We cannot continue indefinitely on the old low wholesale and retail prices, which have prevailed. We must get a price for our product proportionate with the price of other commodities.

The conscientious nurseryman is perform-

The conscientious nurseryman is performing just as useful a service to his counry as many another man in what might appear to be a larger calling.

The sins of any one careless nurseryman of former years in any locality have been manifoldly visited on the nurseryman of succeeding generations. Nurserymen, as a class, average just as conscientious as the merchant or farmer, but the nurseryman's class, average just as conscientious as the merchant or farmer, but the nurseryman's sins of omission or commission live after him. The public, however, is year by year manifesting a higher regard for our calling, and just to the extent that we meet and settle fairly and squarely any minor differences or disputes with our customers, just to that greater extent shall we increase the confidence of the people in us and our business. business.

Farmers in the White Lake, Michigan, fruit growing region say that indications point to record crops of plums, late cherries and apples, while pears are certain to be a failure, but peaches, thought to have been hard hit some time ago, are coming through in many localities for better than was originally expected.

A commerce report states that no counry in Southeastern Europe offers such op-portunities for fruit growing as does Bul-garia. After the war Bulgarians may have to come to the United States for nursery

Events in Mursery and Orchard Rows

The Value of a Currant Bush-The New The Value of a Currant Bush—The New England States and Vermont are trying to prevent he spread of the white pine blister rust. This disease does not spread from pine to pine, but lives a part of its life on currant or gooseberry bushes. In some localities the fruit bushes are to be destroyed, (and paid for) by the State. What is fair compensation? Under he Vermont law if the agricultural agents and the owners do not agree—the selectmen of the town ers do not agree—the selectmen of the town 2.2 called in to settle. In one case this was done and the appraisal put at \$2 per bush. Of course, a price of this sort would soon end the work, since only a small proportion is available. In the work done in the Hudson Valley the following figures are used in calculating any compensation.

Currants and Gooseberries
Fruiting plants of black, white or red varieties in a good state of cultivation and care four years or over, 50c each plant. (Same on gooseberries, 50c each).

Fruiting plants of black, white or red va-rieties in a good state of cultivaion and care two to four years, 35c each plant. (Same on gooseberries, 35c each.)

Fruiting plants, run down, depreciated by age or lack of recent care, (reference had to plants capable of rejuvenation), 25c each ant. (Same on gooseberries, 25c each). Good plants, but neglected, unpruned, in

sod and uncultivated, 10c each,

Nursery Stock of Currants
1 year, first class, 1½c each.
1 year, second class, 1c each. year, first class, 2½ to 3½c each. year, second class, 1c each. Stool plantations, 50c each (if fine).

Downing and Smith's Gooseberries First class, 2 year at 5c each. First class, 1 year at 3c each. English varieties at 12c each. In Vermont the currant crop is a v

small things compared with the pine indussmall things compared with the pine industry, while in the Hudson Valley the exact reverse of this is true, and a currant bush in the valley ought to be worth more than a Vermont garden.—Rural New Yorker.

The Hundred Dollar Peony—Some years ago O. F. Brand of Fairbault, Minn., conceived the idea of raising new Peonies from seed. He saved an immense quantity of seed, and he and his wife became intensely interested. One night Mrs. Brand dreamt that there was in their collection the finest Peony in the world, an immense, glowing red. Soon after, she saw the identical Peony that had been foreshadowed in her dream. that had been foreshadowed in her dream. that had been foreshadowed in her dream. It far surpassed anything yet known. Mr. Brand gave it his wife's name, Mary Brand, and put it on the market at the staggering price of \$100 a root. Some time afterward he told me triumphantly that he had rehe told me triumphantly that he had re-ceived a \$100 check for a root of this Peony. This was probably the highest price ever paid for a Peony root. This Peony has been repeatedly shown at the Minnesota Summer meetings. In color it much resembles the famous Karl Rosenfield; in fact the petals of one were compared with those of the other and no appreciable difference could be noted. However, Mary Brand, is much larger. Of course the price has now come down, being from \$10 to \$15.

larger. Of course the price has now come down, being from \$10 to \$15.

Now, one trouble with us in the Northern States is that we are sadly lacking in flowers on Memorial Day. However, Umbellata Rosea has never failed us till this very abnormal year. This variety is a sweet, variegated light pink. Next comes the old favorite Edulis Superba, a rather light pink. What we have needed for color is a deep red. Richard Carvel furnishes this and is fully as early as the others. So we have in this new candidate all the points of excellence: brilliant color, delightful fragrance and bountiful blooming quality. It is also a rapid multiplier. The price is \$5 and I think this is the cheapest on the market. A single root should give 300 in 10 years, thus almost eliminating the initial cost.

We were discussing the Terry Peonies and both decided that the originator, in-stead of naming 100 should have named not more than five.

Peonies are unusually Brand's

healthy. He has about two hundred acres of rich loam and never plants twice on the same ground. Nor does he use manure but takes land that has been fertilized years be fore. This year he was tearing up an old orchard for his Fall planting.—C. S. Harrison in Florists Exchange.

Dept. of Agriculture Positions—The U. S. Civil Service Commission announces an open competitive examination for entomological inspector, for men only, Aug. 22, at various cities and towns throughout the county. Vacancies occurring in the Federal Horticultural Board, Dept. of Agriculture, for duty in Washington, D. C., and in the field, at entrance salaries ranging from \$1400 to \$1740 a year, and in positions requiring similar qualifications, will be filled from this examination, unless it is found in the interest of the service to fill any vacancy by reinstatement, transfer, or pro-motion. The duties of the entomological position will be the inspection for insect plants and plant products import ed from foreign countries into the United States, and particularly those introduced by the U. S. Dept. of Agriculture. Comby the U. S. Dept. of Agriculture. Competitors will be examined in the following subjects, which will have the relative weights indicated: Entomology, 25; practical questions in inspection work, 40; education and experience, 35. Applicants must have graduated from a college or university of recognized standing and have had at least two years' practical experience in inspection work; or have at least six years' reaction work; or have at least six years' practical experience in plant quarantine and plant inspection work. They must not have reached their fortieth birthday on the date of the examination.

Peach Prices Raised Again-The California peach growers have announced a raise of two cents a pound for the 1917 peach crop over the 1916 crop price. So heavy was the deand for the fruit that the price is again raised. Prices guaranteed to December 31, 1917.

Native Plums-I am in my seventy-fourth year and it is hardly possible I shall see the end of the craze for hybrids that sooner or later must manifest weak points. I have tested more Japanese and Chinese plums in lowa than most of plum culturists, and I have not found anything to excel, or even to equal, our improved natives, much less to exclusively use them for a permanent foundation, or for a successful foundation for our prairie horticulture in plum culture. If I were a young man I should heed the two or three hundred years wasted in trying to build the American grape industry upon the vinifera, or European grapes, and stick to and rely principally upon the native plum, that even without any scientific breeding even now rivals the oriental and domestic species that have had human cul-ture thousands of years, while the native is scarcely rescued from the woods and the plum thickets of our prairie states.-B. Dennis, Cedar Rapids, Ia.

Kansas Orchardists On Tour-Twenty five orchardists of the Arkansas River valley toured Leavenworth county, Kan., August 9-10. They will visit orchards also throughout eastern and central Kansas.

National Apple Growers—At the Niagara Falls convention, August 13, these subjects were discussed: The Government as a were discussed: The Government as a market advisor and distributor; Advantages of various packages in marketing the crop, C. J. Tyson, Floradale, Pa.; How can the National Apple Growers Association best serve its membership? Pres. H. M. Dunlap, Savoy, Ill.; The apple crop from produces to consumer, (Illustrated), Benj. W. Douglas, Ind.: Forecasting yields to consumer, (Illustrated), Benj. W. Douglas, Indianapolis, Ind.; Forecasting yields and market conditions, Jno. R. Williams, St. Louis, Mo.; Should the best grade of apples be packed in more than one size? W. S. Perrine, Centralia, Ill.; Are apple grading laws desirable? Frank S. Adams, Charlottsville, Va.; Importance of the apple as a food and its dietetic value, Mrs. H. M. Duniap, Savoy, Ill.; Shall the fruit grower store his crop or sell at harvest time, S. J. T. Bush, ly and prompt movement of cars be secured during apple harvest? F. H. Simpson, Flora, Ill.; Conserving labor in harvesting the crop this year.

Wisconsin Strawberries—Twenty carloads of strawberries went out of Bayfield, Wis., during the berry season. Several years ago the possibilities of the Chequamegon bay fruit region became known after Bayfield alone shipped \$75,000 worth of Bayneld alone snipped \$75,000 worth or strawberries to the Twin Cities within two weeks. The strawberry belt takes in Madeline island and follows the shore as far east as Cornucopia, and practically in-cludes all the region adjacent Lake Superior, including the vicinity of Ashland.

Box Cars-Colorado Springs. Pueblo and Denver may be able to secure fruit in large quantities from the western Colorado orchards this summer and fall at lower prices, if plans now being worked out by the state war council and the fruit growers' association can be materialized. At a meeting of the board of directors of the meeting of the board of directors of the Colorado Springs Chamber of Commerce, H. W. Cornell, state food commissioner, an-nounced that unless such an arrangement can be made much of the fruit will not be able to reach a market because of the short-

age of refrigerator cars.

"There is a 100 per cent crop and only 20 per cent car equipment," he told the directors. "The growers believe that they can ship their fruit to the three eastern slope cities in common box cars, of cours at a lower price than the refrigerator fruit would bring, and these three cities are asked to have special committees to see that this food is distributed. Posters that this food is distributed. Packing would e made less expensive; baskets, instead of the fancy and expensive crates, could be used. It will be a big factor in the food sit-uation this fall, as large quantities of fruit can be obtained cheaply for canning pur-

New York State Fruit Growers On Tour-An automobile tour of Western New York orchards was made this month by the New York State Fruit Growers. The peach orchards in this section are in remarkably good shape this year and have a very heavy crop of excellent fruit. Prunes are also well loaded, and although apples are in general minus quantity, still in this section there are a few orchards showing a good crop of

Fruit growers visited South Jersey in the height of the peach season for the eleventh summer meeting of the New Jersey State Horticultural Society, headed by C. Fleming Stanger, of Glassboro, as president, on Aug-ust 8, at Tumbling Dam Park, Bridgeton.

No Shortage of Cars, Says Commission— Chairman Hall of the Interstate Com-mission in a letter to Representative H. J. Drane of Florida regarding freight cars for crops says: "Humanly speaking, there seems to be no prospect of Florida producthere ers being deprived of transportation during the coming season. It is the aim, as we understand it, of the rail carriers of the country, acting under the direction of the executive committee of the War Board so-called, of which Fairfax Harrison, president of the Southern Railway, is chairman, to so organize and co-ordinate the various instrumentalities for transportation by rail as to adequately care for the needs, seasonal or otherwise, of the various sections of the country, as well as the national needs, with as little interference with the ordinary with as intile interference with the ordinary movement of traffic as possible in these exceptional times. The powers recently conferred upon this commission by the Esch. Act. approved May 29, 1917, will be used to the extent required to promote effective car service."

\$400 Per Acre for Peaches—Johnson county, Arkansas, shipped 400 carloads of peaches this season, bringing the best financial returns ever received for an Elberta crop. Many farms realized \$400 per acre.

AMERICAN NURSERYMAN



THE NATIONAL JOURNAL OF

Featuring the Nursery Trade and Planting News of American and foreign activities as they effect American conditions. Fostering individual and associated effort for the advancement of the Nursery and Planting Industry.

Absolutely independent.

Published Semi-Monthly By

AMERICAN FRUITS PUBLISHING CO., INC.

Phones: - Main 1602; Main 2603 RALPH T. OLCOTT, Pres. and Tress

Chief International Publication of the Kind

SUBSCRIPTION RATES
One year, in advance - - - \$1.50
To Foreign Countries, and Canada - 2.00
Single Copies - . .15

Advertisements should reach this office by the 12th or 27th of the month previous to the date of publication.

Drafts on New York, or postal orders, instead of checks, are requested.

ROCHESTER, N. Y., AUGUST 15, 1917

HIGH PRAISE FOR MICHIGAN

Michigtn fruit growers received high praise last month from Prof. W. C. Mathews, chief of the department of horticulture of the University of Kentucky who had just completed a tour of the Traverse City, Mich., sections.

"Very few people of our portion of the middle west appreciate what the Grand Traverse region has to offer in agriculture in general and fruit raising in particular," said Prof. W. C. Mathews, who explained that no conception of the amount of money invested in the fruit industry in this region ever reached other agricultural sections of the country and that the trip through the countless orchards was a revelation to him. He further declared that no section of the United States cared for its fruit more thoroughly or efficiently than the ranchers of northern Michigan.

Not only are abundant crops promised in a report issued August 4 by the Committee on Statistics and Standards of the Chamber. of Commerce of the United States, but it goes on to say a "most encouraging and significant feature of the situation is the general confidence of the business world in the future, the large volume of business, and the generally sustained conduct of commercial activity in the midst of war's alarms and a future which is beyond any man's ken." It declares for some months past the country has been afflicted with alarmists who sent forth dire prophecies as to the likelihood of actual famine food in this nation.

The Navy Department has just placed orders for 37,500 cases (1,687,500 pounds) of tinned pineapple with five firms having canneries in Honolulu. This represents a year's supply of pineapple for the navy yards of the east coast and the Atlantic Fleet. We may expect a similar provision of apples and other fruis, all of which will make necessary the services of the nurseryman in the near future; for the unusual demand created under present conditions is sure to be continued indefinitely in degree.

THE SOUTHERN ASSOCIATION

Right up to date as a business men's organization, is the Southern Nurserymen's Association. Some of the most active members of the American Association are officers and leaders in the Southern Association whose convention programs in recent years especially have shown a careful consideration of the most practical and timely topics under the direction of able speakers. The Southern Association has led all others in putting out a booklet as an advertising medium. It has done practical work, too, in recent years, in raising the plane of nursery business practice along the lines frequently advocated in the editorial columns of this journal. We congratulate the Association upon its aims and upon the evidences of the success of its endeavors. We are pleased to note also, that applications for membership in the Southern Association are scrutinized and that only such as are worthy are admitted to membership. This journal has advocated for years just such practice: we have had faith that it would come into vogue.

The program, as outlined by Secretary Howard, for the Atlanta convention on August 29-30 is presented in this issue. All nurserymen are eligible to membership upon vote of the organization.

ORNAMENTAL STOCK DEMAND

Nurserymen report a well-sustained demand for ornamental nursery stock, notwithstanding national and international conditions. Business as usual is going on. In this issue is the announcement of a middle states concern which has thirty carloads of berberis thunbergii to offer—tangible evidence of belief in an active market. Another concern is pushing its specialty of viburnums in variety; while a general stock of ornamentals is offered by well known nurserymen in various parts of the country.

FRUIT GROWING INCREASING

That war's demands and the preachment by the U. S. Department of Agriculture on food conservation is telling on the exten-

sion of fruit production is shown by the news colums of the American Nurseryman. Upon all sides are reports of unusual activity in orcharding. Nurserymen should watch this development and make plans accordingly.

C. W. Ward, Cottage Gardens Nurseries, Eureka, California, is succeeding well in the production of azaleas, taxus, boxwood and rhododendrons in large blocks. He has demonstrated that the growth of the azalea is relatively faster on the Pacific Coast than in foreign countries; that the buds are larger and stronger, much earlier ripened, and the blooms are larger and of more brilliant and deeper color than the foreign grown stock, and that many of the varieties which cannot be brought in 10r Christmas, when grown in foreign countries can be bloomed for the holidays when grown on the Pacific Coast. "The fact of the matter is" says Mr. Ward, "some very substantial surprises are in store for obstructionists who would condemn the American florist trade to perpetual importations instead of emancipating themselves from the foreign grower by producing their own material in America."

There is a bumper peach crop in the mountain sections of Smithsburg and Penmar, Pa.

COMMITTEE APPOINTMENTS

The first publication to the nursery trade of the committees appointed by President Lloyd C. Stark of the American Association of nurserymen was made in the American Nurseryman, at page 34 of the August 1st issue. E. S. Welch, Shenandoah, Ia., is chairman of the committee on arrangements for the Chicago convention next June. M. R. Cashman heads the committee on distribution; Henry B. Chase the committee on program. Mr. Welch is also chairman of the committee on finance, a sub-committee of the executive committees. J. Edward Moon is chairman of the new committee on arboretum, and E. S. Welch and W. C. Reed are named as members of the committee to consider means for supplying trees for replanting devastated French orchards. In most of the other cases committee chairmen have been retained.

NEW CANADIAN REGULATIONS

In this issue are presented amended regulations under the Destructive Insect and Pest Act of Canada, governing the importation of nursery stock into that country. Dr. C. Gordan Hewitt has outlined very clearly just what the new requirements are and has asked that they be presented to the trade through the American Nurseryman. As noted in his communication there are six points to which especial attention is directed. We give in detail the regulations as provided by the Act.

VALUABLE TIME LOST

The convention number of the Florists' Exchange is a fine production. One would say at a glance that the war time's only effect upon the florist trade is one of acceleration. We predict that, should the program for development of the nursery trade as outlined by J. R. Mayhew at the Philadelphia convention and exclusively published in the last three issues of the American Nurseryman be pushed to fruition, the acceleration would compare favorably with that in the florist trade. Valuable time is being lost.

Members of the American Association should be interested in this statement by the National Apple Growers:

"Co-operation does not mean combination. No individual or concern who reaps a legitimate profit from the apple business need suffer but with the information this organization may gather and disseminate among its members, the latter may more intelligently make equitable terms and a fair price. Other industries have identical organizations which have worked untold advantages to each member."

And here is another from the same source:

"And yet no official has received payment for any work done. The organization is not yet large enough to make possible such an expenditure. As soon as possible it will be necessary to engage a paid official who will give his whole time to collecting and distributing information that will keep the membership fully informed as to the group and other conditions, storage facilities and the like. The sooner the membership is large the quicker it will be possible to serve the interests of all apple growers."

These observations seem to hit the case of the nurserymen's national organization pretty closely. Brother Mayhew is on the right track in his business-like suggestions.

Men of the Hour-"American Aurseryman" Series



O. JOE HOWARD, Pomona, N. C. Secy.-Treas. Southern Nurserymen's Assn.



PAUL C. STARK, Louisiana, Mo. Director and Vice-President Stark Brothers N. & O. Cos.



PROF. E. L. WORSHAM, Georgia State Entomologist, Speaker Before Southern Association.

Southern Nurserymen's Association

Editor American Nurseryman:

In regard to the next meeting of the Southern Nurserymen's Association, which is to be held in the Piedmont Hotel, Atlanta, Ga., Wednesday and Thursday, August 29th and 30th. First meeting will be Wednesday morning at 9:30.

Aside from a little routine business that morning, we are to be favored with an address by Hon. Asa G. Candler, Mayor of Atlanta. Also address by Prof. G. C. Starcher, Alabama State Horticulturist.

"A Few Cheerful Words Entomologically."—Prof. E. L. Worsham, Ga. State Entomologist, Atlanta, Ga.

"Three Wars and Their Sequel."—H. F. Hillenmeyer, Lexington, Ky.

"Propagating from Selected Types for Hardiness."—Wm. Harry Kessler, Landscape Architect, Birmingham, Ala.

Later in the sessions we are to have addresses by Mr. Harry G. Hastings, of the Hastings Seed Co., on "How we built a mail order business."

Then we are to have talks by Mr. J. R. Mayhew, Waxahachie, Tex., Mr. C. A. Simpson, Monticello, Fla., and Mr. Henry B. Chase, on Co-operation.

Following these talks there will be expressions relative to the booklet which this association got out the beginning of this year, to be used as an advertising medium.

Also we will have talks or addresses on "How to get better prices."—George W. Poague, Graysville, Tenn.

"Standardizing Retail Prices."—Mark Lanier, Lockhart, Ala.

"Salesmanship."—E. W. Chattin, Winchester, Tenn.

"Training Nursery Salesmen to put away their Hammers."—Chas. T. Smith, Concord,

"The Future of Pecans and Satsumas." R. L. Scott, Citronella, Ala.

"Why Home Owners Should Plant Ornamentals."—I. E. Long, Chamblee, Ga.

"The Nurseryman's Need of Practical Knowledge of Landscape Work." (Illustrated by stereopticon) by Bruce Howell, Knowville, Tenn. Possibly a talk on "The Nursery Salesman" by the undersigned.

A live meeting is anticipated. Membership in this Association is elective. All nurserymen of good standing are eligible. Application, with fee, \$2.00 should be mailed at once to the Secretary, O. Joe Howard, Pomona, N. C. All new members will be voted on immediately after the rolicall, and when elected will be admitted to the convention hall and introduced.

Will state in this connection, that some parties who were members a year ago are not now because of the voting which took place immediately after the last meeting.

Will state, too, in this connection, that some parties who have applied have not been admitted to membership because they could not stand the test. We believe that the nursery business in this section can be done much better co-operating and by eliminating anything that is not just right from a strictly business standpoint. We are working to that end, and are making some headway, we believe.

O. JOE HOWARD, Sec. and Treas.

The officers of the Southern Nurserymen's Association are: President, Harry Nicholson, Winchester, Tenn.; vice-president, O. W. Fraser, Huntsville, Ala.; secretary-treasurer, O. Joe Howard, Pomona, N.

Pomona, N. C.

ARE YOU
SAVING YOUR MONEY
to invest in the
NEXT ISSUE
of the
LIBERTY LOAN?

Following the general plan of speeding up the work of the farmer and fruit grower, the department of development of the Frisco lines has arranged to demonstrate throughout the southwest a modern sizing machine for sizing apples. This is only one of the forms of aid which the department hopes to lend the farmers to make their business more profitable.

A CORRECTION

In our August 1st Issue we mentioned the resignation of Lloyd C. Stark as Vice-President and Director of Stark Bros. Nurseries and Orchards Co., and the election of W. P. Stark as a director of that company. Unknowingly we may have misled our readers into thinking that W. P. Stark was elected to fill the vacancy caused by Lloyd Stark's resignation. This is incorrect as W. P. Stark has no official connection whatever with Stark Bros. except as a director in that company since the meeting of the stockholders last June.

Lloyd Stark, who formerly served as a U. S. Naval Officer for eight years, recently offered his services to the Government and was accepted. He received a Commission as Captain in the U. S. Officers' Reserve Corps and is now taking a 17 days training at Fort Myer, Va., after which he will be subject to call by the War Department.

Paul C. Stark was unanimously elected as Director and Vice-President to fill the vacancy caused by the resignation of his brother, Lloyd Stark. Paul C. Stark has been connected with the nursery work all of his life and is a graduate of the Horticular Department of Cornell University, and later took a post-graduate course in nursery work at that institution. For a number of years he has been Assistant General Manager of Stark Bros., and has been in close touch with his brother's work as General Manager. With his experience and training he is well equipped to carry on Lloyd Stark's efficient and progressive work.

The present officers of Stark Bros. Nurseries & Orchards Co., are:—Edgar W. Stark, President; Paul C. Stark, Vice-Pres.; Tom W. Stark, Secretary; Lawrence E. Stark, Asst. Sec.-Treas.; Eugene Duncan, Theasurer.

Pear Growers Convention—Delegates to the convention of the California Pear Growers' Association, representing Sacramento, Contra Costa, Santa Clara and other counties, in session July 15 at Walnut Creek, voiced protest 'against prices offered for pears by canners. The growers are demanding a minimum of \$50 per ton for pears.

What Ornamental Mursery Stock is Doing

Effective Trade Publicity

Editor American Nurseryman:
We thought it might interest your read-We thought it might interest your readers to know that at the meeting of the Pacific Coast Association of Nurserymen, held at Tacoma on July 11th, and 13th, a promotion and publicity bureau or committee was formed for the purpose of formulating some plan for co-operative publicity and promotion of the nursery business. Several phases of the movement were discussed at the meeting of the committee appointed to present the matter to the meeting of nurserymen, and among others the question of annual catalogues by the various nurseries, seed houses, etc. It was the opinion of annual catalogues by the various nurseries, seed houses, etc. It was the opinion of some of the committee that the practice of issuing an annual catalogue by every nurseryman practically the same as the ones issued in previous years was unnecessary, and that the money usually devoted to this method of advertising would better be pooled and used along educational lines. Or that each nurseryman should contribute a certain sum monthly for publicity work. That arrangements be made licity work. That arrangements be made with the publishers of country newspapers whereby simple cottage garden plan might be published in the various newspapers be published in the various newspapers circulating throughout the country districts, also in the Sunday editions of the city papers. Also that the co-operation of Commercial Clubs, Rotary Clubs, Parent-Teachers Associations, Women's Clubs and other organizations be sought for the purpose of making a more beautiful and fruit. Northwest as well as the school air. pose of making a more beautiful and fruit-ful Northwest, as well as the school au-thorities, park boards, etc. It was con-ceded that although we are laboring under the disadvantage of war conditions, still the Pacific northwest is soon to be nationally advertised as "The Playground of Amer-ica"—an advertising fund of \$120,000 havica"—an advertising fund of \$120,000 having been raised by the various commercial bodies, appropriations by legislature, etc. for this purpose,—and that by proper work in the way of arousing a civic spirit—civic pride and ambition to make each city and town in the Northwest as clean and attractive as possible, considerable impetus could be given the pursery business.

could be given the nursery business.

It is our conviction that the nursery business can be exploited in exactly the same way that the California Fruit Growers Association promote their products. They do not say, "We raise oranges, lemons, etc. do not say, "We raise oranges, lemons, etc. You know that—if you want any of these products go and buy them at the stores." Not by any means. The California growers spend an increasing amount from year to year—and if it did not pay they would not keep increasing the amount of money spent—to tell the public the many and varied uses of their products—how lemons beautify the complexion and stop the hair from falling out, how you can gargle your sore throat and tone up your stomach, etc. They hire expert chefs to experiment with all kinds of recipes for cooking and serving lemons, oranges, raisins, and furnish the people with this information; they tell them how delicious and healthful raisin bread is, also lemon and raisin pies; they

pay large sums for illustrations showing the use of lemons on fish, oranges in various kinds of desserts, and in fact tell ous people as many interesting and useful facts about oranges, lemons, raisins, nuts, figs and other products as they can possibly think of or hire anybody else to think of. And the lemons and oranges and other pro-And the lemons and oranges and other products that would otherwise rot on the ground pay for all this publicity and a profit besides, while enabling the California Fruit Growers Association to market vast quantities of delicious fruit at prices that are remarkably low in these days of high prices of almost every other cornwedity. commodity.

commodity.

Dr. Ward King, advocate of the split log drag for keeping the rural roads in good condition, has said: "The roads do not need fixing; it's the people's heads." He adds: "Fix the heads of the people, and the roads will fix themselves." May this not be also true of the nursery business? If so, let's set about to fix our heads, or get them fixed.

Would it not be a good idea for the mem-

Would it not be a good idea for the members of the eastern and western nursery-men's associations to have an exchange of ldeas in regard to methods of promotion and publicity of the nursery business? Might it not be well to even hire an "efficiency expert" or publicity expert to devise ways and means for putting the nursery. devise ways and means for putting the nur-sery business in the front rank among modern business enterprises? Let's stop saying "It ought to be done, but I can't see how." Let's make a beginning—let's "start something"—and we believe that when we something—and we believe that when we once do get started ideas aplenty will keep coming from all parts of the country, and that it will only be a few years until the nursery business will take its rightful place among modern progressive business pur-

We might add that it is the intention of the publicity bureau to secure, if possible, the co-operation of not only the nurserymen, but the florists, seed houses, garden implement firms, and everyone directly or indirectly connected with making the North-

west beautiful.

MITCHELL NURSERY COMPANY. Tacoma, Wash. M. G. Mitchell, Sec.

Tree Culture in Uruguay—The Uruguayan Government seeks to encourage tree planting, and the National Nursery at Toledo has supplied trees at very low cost. In compliance with a recent decree, the nursery will in the future donate large numbers of trees. The decree provides that proprietors possessing up to 100 hectares (247 acres) of land will be supplied gratuitously with 100 trees and that the nursery can distribute trees and that the nursery can distribute 200,000 trees every year in this way. The nursery will also donate in 1917 100,000 and in the following years 200,000 trees to rural municipalities, schools, police farms, and other institutions.

Say you saw it in AMERICAN NURSERYMAN

For Modern Nursery Lists Varieties Always Uniformly Good

Red-Berried Elder (Sambucus pubens) leads all our native berried shrubs in affording food for the greatest number and variety of our wild birds and also in being highly ornamental. Both its herries and seeds are small and small species of our most beneficial insectivorous birds feed upon and are very fond of its berries, such as the kinglets, finches, warblers, vireos and buntings It is a tall growing spreading topped shrub with handsome dark green foliage, flower ing very early in spring in large pyramidal paniculate cymes followed by ar profusion of bright scarlet berries in great/loose paniculate clusters making the bushes a mass of bright scarlet when planted in shade and a strong bright red when in full sunlight. As an ornamental decorative red-berried shrub it ranks second only to the Viburnum Americanum (so-called native High Bush Cranberry) . It is one of the very best berried shrubs for planting about the home. garden, orchard, along fence lines, waste places about the farm and for ornamenting road-sides. It grows readily and quickly from seeds sown preferably the first autumn after collecting or the following spring. Red-Berried Elder is so very valuable to our wild birds that it should be largely naturalized by sowing the seeds on the borders of country roadways, waste places about the farm, orchards, gardens and parks. The seeds are small and a quarter or half pound of the seed will sow a considerable space of ground and produce a large number of seedlings. Berried trees and shrubs depend almost entirely upon birds to distribute and reproduce themselves. There is almost boundless opportunity to aid the wild birds in the control of noxious insects by helping to distribute berried trees and shrubs along roadsides and fence lines to toll the birds from the woodlands and bring them to the open spaces along the borders of fields, orchards and gardens.

"This flag which we honor and under which we serve is an emblem of our unity, our power, our thought and purpose as a nation. It has no other character than that which we give it from generation to generation. The choices are ours. It floats in majestic silence above the hosts that execute those choices whether in peace -Woodrow Wilson, President of the

United States.

There were 402 cars of California apricots on eastern markets this year, against 289 1/2 cars in 1916.

he Chase Labe

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Catalpa Bungei, 6 1-2 ft. stems, straight and Bechtel's Double Flowering Crab.

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N. C. Natural Peach Pits

A party who planted two-year-old seed last fall wrote us the other day as follows:

"We have some seedlings. Will have to do a lot of thinning."

We prepose to furnish our custemers seeds that will produce results, Seedlings, the same as this party has. 1915 seed that we offer for shipment new, being two years old, the same age as the seed planted referred to by the party above, will give you the same satisfactory results, and they are a little cheaper than 1917 seed, but will be glad to furnish you whichever you decide to use.

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We quote you prices on seeds of 1916 crop that germinate fall of 1917 and spring of 1918, cleaned free from pulp, stratified in damp sand and in prime condition. Some of these seeds germinate in September and others in October. All must be sown this fall. Those that germinate in September will show growth above ground this fall. Those that germinate in October will not show growth until next spring. The following is the list and number of pounds we have of each approximately:

											Pe	r lb.
125	lbs.	Virburnum	lentago,	1916	crop	. @	\$2.00	per	r ib.	3-5	lbs	1.75
25	lbs.	Viburnum	Americanum	64	54	0					lbs	
3	lbs.	Viburnum	dentatum.	44	44	0	2.50		45	-		
10	lbs.	Viburnum	nudum.	41	44	a	3.00	66	44			
-3	lbs.	Viburnum	opulus.	44	66	0	3.00	46	68			
40	lbs.	Viburnum	pubescens	#E	66	0	2.75	66	-	3-5	lbs	2.50
20	lbs.	Viburnum	rufidulum	66	44	0	2.50	44	64		lbs	2.00
25	lbs.	Ilex-vertice	llata	66		0	3.50	-44	44		lbs	2.50
			Virginiana	66	64	0	3.00	44	66		lbs	
			1917 crop, cle 1917 crop see		1-2	lb.,	\$1.75;	1	lb., \$	\$3.00		

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In Mursery Rows

THE PATCH BUD

CHARLES L. EDWARDS.

in "Farm and Ranch," Dallas, Tex.

Amongst pecan specialists or experts, as well as other people interested in pecan culture, there is frequently a decided preference for some particular mode of propagation. Occasionally some one is partial to grafts ... while another insists upon some special form of bud above all others. When the citizen is firmly set in his opinion, whether justly so or not, it is up to the skilled workman to humor the whim and give what is wanted. There are also times when the size and condition of scions as well as the size and conditions of the trees to be worked upon call for varied treatment. Sometimes grafts answer best and at other times different forms of bud. For instance the graft may be preferable in working large branches or stems: and in early spring a dormant tree in the nursery row can be worked only with the chip bud, while large seedlings an inch or more in diameter, in which sap is flowing, call for the modified shield bud or the patch bud as the operator may prefer. Where stock and scion are not above or be low ordinary sizes my own preference is for the modified form of the shield bud, partly because a fit has to be made at one end only, while the patch bud calls for a fit at both ends. This difference makes the shield form easier for the beginners, and usually the experienced workman can put on more shield buds in a day than of patch buds.

But the patch buds in capable hands gives a higher percentage of saved buds than the shield, though the increased number of shield buds put on in a day will give more saved buds in a day's work. To make this proposition clear it may be stated in this way: under favorable conditions an average saving of two-thirds may be made with the shield bud and three-fourths with the patch bud. But while one workman is putting on patches another workman of equal efficiency may put on 150 shields. So a saving of three-fourths would give 100 shield buds in the same length of time. This estimate, while not mathematically exact, is as close an approximation to the comparative results of the two methods as can be made after using both for a number of years. It may be added here that when the vitality of scions has become impaired from drying out or other cause, the patch and chip methods will save the buds, if there is any salvation for them.

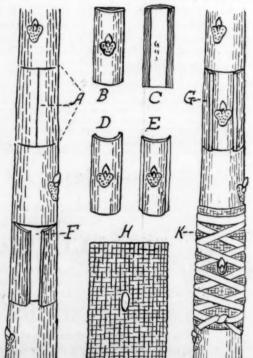
Patch buds, like the modified shield, may be taken from dormant scions as well as from scions in which there is a flow of sap. Neither can be used until bark will slip on the trees that are to be worked. It will be understood that dormant scions are cut from superior trees in midwinter and kept in cold storage until needed in spring. In taking off the buds for use a thin film of underlying wood is also taken, for when scions are dormant the bark will not separate from the wood. Most workmen use a budding tool with parallel blades to mark the dormant scion and then take it off with the buddingknife. But before this is done parallel cuts are made with budding tool on the stock to be worked and a downward slit from one cross-wise cut to the other. The bark on the stock is then opened, the bud inserted, the flaps pared down, the waxed wrapper put on and tied as shown in my drawing. When the operator prefers grafting-wax as a covering for the wound made by the knife, the flaps of bark overlapping the bud will hold it securely in place while the operation is being performed. My own preference is for the cloth wrapper dipped in beeswax only. It excludes both air and moisture, saves the buds, is less trouble to prepare and more handy to use. A careful study of my drawing will explain the process better than can be done by words. After some practice with the budding-tool it may be laid aside by workmen of fair aptitude. On cutting the bud from the dormant scion it may be placed

lengthwise between two natural buds on the stem of the stock and cross-cuts made at both ends of the bud. Then the slit may be made from one cross-cut to the other, the bark opened, the bud inserted, the flaps of bark pared down, the wrapper put on and tied. But always remember that the layer of wood taken off with the bud must be thin and not thick. And the tie must be drawn firm and tight or the bud will not live. Let no one be disturbed about putting a layer of wood on what some call the cambium layer of the stock. When good fits are had at both ends of the bud Mother Nature will do the rest. It is of some assistance to the workman to have the bud to serve as a measure for the bed in which it is to be placed. But above all is the advantage resulting from becoming seasoned to the work. In course of time one acquires a knack in handling the knife that easily secures closefitting buds without any measure at all, especially when both scion and stock are of large sizes. But these niceties in handiwork may be more easily demonstrated than described.

In summer-time work the patch bud is usually peeled from the scion. My illustration shows two forms of it. The one on the left is used when a section of bark is removed from the stock; the one on the right has the bark cut to beveled edges on the sides before removal from the scion. These beveled edges fit snugly under the flaps of bark and are a distinct help in saving the bud. When patch buds are peeled from the scion it sometimes occurs that the bark on the stock is considerably thicker than the bark on the scion. In such cases the difficulty may be overcome easily by cutting the bud as directed in the case of dormant scions; that is, take off some wood along with the bud-piece. In this case the layer of wood should be thick enough to bring the outer surface of the bud even and flush with the outer surface of the stock. Do not be afraid of the layer of wood taken off with the bud. With a good fit at both ends and the flaps of bark covering the sides it is only necessary to wrap and tie properly. of stocks may be cut After this the tops of stocks ma away about a foot above the bud. struction for after-care of buds may be found in almost every bulletin on pecan culture, and these are worthy of careful study by beginner.

The drawing illustrating this article was made for Farm and Ranch six years ago, but about that time the modified shield bud on stem and crown proved successful, and was given preference because in my judg-ment it seemed to be a simpler and easier process. Just now there is an increased interest in the patch method and this article is prepared in the hope that it may be of service to some of the many people who in recent years have become interested in the nut industry. This process is briefly de-scribed in Professor Hume's excellent trea-tise on "The Pecan and Its Culture;" but with lapse of time its range of utility has developed beyond the scope outlined in that

publication.



PATCH BUDDING-Figure A, shows cut in bark of stock; B and G, dormant patch buds; D and E, Summer time patch buds; F, barkopened for bud; G, bud in place with flaps of bark pared down; H, waxed cloth wrapper; K, same tied on.

COMING EVENTS

National Apple Growers-Niagara Falls. N. Y., Aug. 13-14.

International Apple Shippers-New York City, Aug. 15.

Northern Nut Growers-Stamford, Conn.,

American Pomological Society-Boston, Mass., Oct. 31-Nov. 4, 1917. Massachusetts Horticultural Society-Boston, Mass., Oct. 31, 1917.

National Nut Growers-Biloxi, Miss., Oct.

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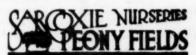
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American Nursery TRADE DIRECTORY

Listing the Nurserymen of the United States, Canada and Europe, with their addresses. Also the shipping laws regulating transportation of Nursery Stock in the Union and Canada, Federal Horticultural Board regulation regarding importations, statistical matter concerning the Nursery Business, and Horticultural Organizations, national, district and state. Alphabetically arranged. Indexed for ready reference

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ROCHESTER, N. Y., U. S. A.

CITERATURE

Cost of Apple Production In Hood River Valley-As the result of a detailed study of 54 bearing orchards in the Hood River Valley, Oregon, it was found that the total cost of apple production for the 54 bearing orchards averaged \$1.02 per box and \$222.32 per acre under mulch crops. The average cost per box exclusive of interest on orchardland investment was 66.4 cts. Net labor costs averaged 38.3 cts. per box. Material and fixed costs constituted 62.5 per cent of the total cost. The trees in the orchards studied averaged 12 years of age and 72 trees to the acre. The average total investment per acre of apple orchard was \$990.74; the average yield, 222 boxes per acre. The Hood River Valley appears to be particularly well adapted to the production of Yellow Newtown and Esopus apples, both of which grow to perfection there. 54 bearing orchards in the Hood River Valgrow to perfection there

Black Canker of Chestnut and the Restoration of the Chestnut—A. Prunet (Ann. Serv. Epiphyties, Mem. et Rap., 2 (1913), pp. 67-100, figs. 5; abs. in Alpe (Italy), 2 ser., 3 (1916), No. 6, pp. 168-177, fig. 1).—The author gives an account of the parasitic character and the effects of black can-ker, ink disease, or black root of chestnut. This has been known in northern Italy since 1842 and since noted throughout a large part of Mediterranean Europe and as far west as the Azores, but probably not in Asia Minor or Africa. The author discusses the attempts made to restock areas where the chestnuts have been destroyed, by use of the common chestnut and of Asiatic (particularly Japanese) species which appear more or less resistant to this disease; also by the use for stocks of other trees resist-

Recent Publication-Sixteenth Report. State Entomologist Minnesota, 1915-1916; Propagation of Pecans, J. H. Burkett, Texas Dept. Agriculture Bulletin: Peach Growing in North Carolina, N. C. Dept. Agriculture Bulletin.

Henry Broom, of Walker county, Alabama, is now reaping rich rewards for the care and attention bestowed upon his mag-nificent apple orchard. He is placing in the market an abundance of very fine fruit, for which he is receiving a good price. Mr. Broom sprays his trees regularly and states that they are laden with perfect fruit.

Fruit growers of Colrain, Mass., and virinity produce 50,000 to 75,000 barrels of apples yearly. They have a co-operative association for the purchase of fertilizers, etc., and are considering co-operative marketing.

A recent consular report brings the singuintelligence that New York dealers be asked to buy the surplus apple crop York dealers of Tasmania.

E. P. BERNARDIN

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Write for quotations

Presidency May Devolve Upon Mr. Mayhew

President Stark of American Association Thanks Vice-President For Offer of Assistance and Suggests Possibility That Latter May Need To Take His Place

The following letter from President Lloyd C. Stark of the American Association of Nurserymen, now at Fort Myer, Va., to Vice-President J. R. Mayhew is self-explanatory:

Army and Navy Club, Washington, D. C.

J. R. Mayhew, Vice-Pres't
American Association American Association of Nurserymen, Waxahachie, Texas. My dear Mr. Mayhew:—Your most w

-Your most wel-My dear Mr. Mayhew:—Your most wel-come letter reached me this evening and I want to thank you for your offer of assist-ance. You may be sure I shall lean heavily upon you and consult you often, also if the Government decides that they may need my services for a considerable length of time, or decides to send me to France (I am now or decides to send me to France (I am now instructing the Field Artillery, Officers' Training Camp here at Ft. Myer) I shall feel that I cannot continue to act as President of the Association and in that case I shall have the privilege of placing the reins

in most able hands.

I shall know perhaps very shortly just what the Government is going to do, at which time I shall immediately advise you, the Executive Committee and the Secre-

had hoped with your able assistance, and that of other progressive members, to accomplish a great deal this year for the nursery industry, but the Government call was one which I, with nearly eight years military service, could not honorably ignore, so I offered my services.

With best wishes, I am,
Most sincerely yours,
LLOYD C. STARK.

D. H. Crook has purchased from George D. H. Crook has purchased from George M. Pierson an eleven-acre Navel and Valencia orange grove in the Lincoln Heights tract in Riverside, California, giving in part payment a tract of unimproved land in the San Dimas district, adjoining land already owned by Mr. Pierson. Total consideration \$18,000. Mr. Pierson will set the land out to citrus trees, which, when completed, will give him an orchard of forty acres.

Pear Growers Organizing

The California Pear Growers' Association met in San Francisco last month and dismet in San Francisco last month and dis-cussed the offers of buyers to contract future crops of pears for five or ten years. The prices offered, however, seem to be more satisfactory to canners than to growers. President Frank T. Swett has issued this statement to pear growers, urging them "Stop, Look and Listen:"

Befroe signing away his crops for a term of years every grower should most carefully consider new conditions due to war and consider new conditions due to war and shortage of labor. Costs of production of fruit are rapidly rising. The man who signs away his crops at less than it may cost to produce those crops may be selling himself in economic slavery Labor is almost double the price of former years What will the labor cost after a great army is drafted? Farm implements have nearly doubled in Farm implements have nearly doubled in cost. Spray materials are rising in prices. Everything the grower uses, as well as taxes and cost of living, is mounting amazingly. The prices which would have returned a fair profit a few years ago would now entail an annual loss.

While the British embargo is curtailing the profit of the cytonic results of the content of th

one market, to the extent variously estimated of from 2500 to 5000 tons of pears in a canned form, that is only a small proportion canned form, that is only a small proportion of the total crop of the 17,000 acres of pears in California. It should be made up by concerted effort in broadening our home markets in the United States for fresh, canned and dried pears. When the war ends there and dried pears. When the war ends there should be a wonderful demand from hungry Europe for all foods, incuding pears-canned, fresh and dried.

Every holder of a Liberty Loan Bond and every prospective purchaser in the next is-sue of the Liberty Loan Bonds should bear in mind that the purchase of a Liberty Loan Bond helps the Government of the United States, helps the citizens of the United States and helps the purchaser as a citizen as well as a being at the same time a splendid private investment.

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Maryland Nut Nurseries

Bowie, Maryland

Our advice to mulch nut trees against the effects of dry weather has been unnecessary in Maryland this year as it has rained every day for the last four weeks. In southern Indiana, however, it has been dry for four or five weeks-perhaps it has been dry in many other places—so we hope you have taken our advice.

Owing to the excessive rains and unusual labor conditions in and around Washington, we did not propagate as many nut trees this Spring as intended, but we have some of the finest English walnuts, "Stabler" black walnuts, and hardy northern pecans that we have ever grown. We have buds and grafts that made more than three feet of growth by July 15th. In one of the early numbers of the "American Nut Journal" (or "America i Nurseryman") we will publish some pictures of our trees so that you can see for yourself. We will have fewer trees for sale this fall than any season yet, but they are fine ones.

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